**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Geophysical Investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand Pump, MWS or P.W.S.S. by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metere in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrment and accessories to work site, engaging technical personal and labour required etc | | | | | | | |
| | | No | | | | | | |
| | Pre measurement Quantity vide page no (1) | | | | | | 5 | |
| | Quantity To be Paid | | | | | | 5 | |
| | | | | | | | | |

Contractor

Assistant Engineer 30/8/19

Assistant Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 2 | Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burdern upto 20 M. fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimu working of compressor for one hour (excluding cost of casing pipes, collars, cap etc., ) | | | | | | | |
| | | Rmtr | | | | | | |
| | 0.00 to 50.00 mtrs | | | | | | | |
| | Pre measurement Quantity vide page no (2) | | | | | | 250.00 | |
| | Quantity To be Paid | | | | | | 250.00 | |
| | | | | | | | | |
| 3 | 50.00 to 100.00 mtrs | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (2) | | | | | | 250.00 | |
| | Quantity To be Paid | | | | | | 250.00 | |
| | | | | | | | | |
| 4 | 100.00 to 150.00 mtrs | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (2) | | | | | | 250.00 | |
| | Quantity To be Paid | | | | | | 250.00 | |
| | | | | | | | | |
| 5 | 150.00 to 200.00 mtrs | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (3) | | | | | | 232.00 | |
| | Quantity To be Paid | | | | | | 232.00 | |
| | | | | | | | | |
| 6 | 200.00 to 250.00 mtrs | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (3) | | | | | | 170.00 | |
| | Quantity To be Paid | | | | | | 170.00 | |
| | | | | | | | | |

Contractor

Assistant Engineer 30/8/19

30 k/p

Asst. Executive Engineer

Project Division

Yelahanka Zone

Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 7 | 250.00 to 300.00 mtrs | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (3) | | | | | | 77.00 | |
| | Quantity To be Paid | | | | | | 77.00 | |
| | | | | | | | | |
| 9 | Supply of ISI Mark 175 mm nominal Bore, Plain end Steel casing Pipe - grade of Steel Fe 410 of wall thicjkness 5.4 mm thick confirming yo IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basis open herth electric or basis oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably 25.10kg/mtr. (Inclusive of all taxes and durties). Prices included Collar-medium duty | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (4) | | | | | | 222.00 | |
| | Quantity To be Paid | | | | | | 222.00 | |
| | | | | | | | | |

Contractor

Assistant Engineer 30/8/19

30/8/19

Assistant Executive Engineer
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | Supplying PVC Pipes 10kg/sqm 250mmdia PVC (casing pipe) | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no - 4 | | | | | | 90.00 | — |
| | Quantity To be Paid | | | | | | 90.00 | ✓ |
| 11 | Providing 175mm dia Bore Cap & Clamp Set | | | | | | | |
| | | Set | | | | | | |
| | Pre measurement Quantity vide page no - 5 | | | | | | 5.00 | — |
| | Quantity To be Paid | | | | | | 5.00 | ✓ |
| 12 | Providing 175mm dia M.S Collar | | | | | | | |
| | | No | | | | | | |
| | Pre measurement Quantity vide page no - 5 | | | | | | 5.00 | — |
| | Quantity To be Paid | | | | | | 5.00 | ✓ |

Contractor

Assistant Engineer 30/8/19

Assistant Executive Engineer 30/8/19

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 13 | Supply and delivery at sire brand new submersible PUMPSET suitable for borewell of 150mm dia and having declared duty conditions as detailed below and satisfying performance characteristic for pump and motor as declared by Bureau of Indian Standards. The pump should confirm to IS:8034-1976 (with all its latest amendments) and should bear the ISI certification mart IS 8034-1976. The pumpset should consist of bronze impellers. Discharge: 7500 Iph, Head: 102.88 mts, 15.00 HP30 Stage Atalanta, Suguna, CRI KIRLOSKAR and other equipment pump 15.00 HP / 11 KW (30 stages) | | | | | | | |
| | | **Set** | | | | | | |
| | **Pre measurement Quantity vide page no** (6) | | | | | | 5.00 | |
| | **Quantity To be Paid** | | | | | | 5.00 | |
| 14 | Submersible Cables: Supply and delevery brand New best make PVC insulated cable of flat 3 core (Sheathed) of nominal cross sectional area to IS: 694-1977 with latest amendments and ISI mark 1x3x6.00 Sq mm | | | | | | | |
| | | **Rmtr** | | | | | | |
| | **Pre measurement Quantity vide page no** (6) | | | | | | 2082.00 | |
| | **Quantity To be Paid** | | | | | | 2082.00 | |
| 15 | Supply and delivery of Brand New gate Valve of 50mm dia size confirming to IS: 778-1984 with latest amendments with ISI mark | | | | | | | |
| | | **Each** | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | **Total** | | **5.00** | |

Contractor

Assistant Engineer 30/8/19

30/8/19

Assistant Executive Engineer
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 16 | Supply and delivery of Brand New best make non return valve of 50mm dia size confirming to IS: 10805-1986 with latest amendments with ISI mark | | | | | | | |
| | | Each | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | Total | | 5.00 | |
| 17 | Supply, Installation testing and commissioning of approved make heavytubes (Class 'C') confirming to as per IS1239 Part - I (25mm Nominalbore 4.05mm thick @ 2.97 Kg/m, 32mm Nominal bore 4.05mm thick@ 3.84 Kg/m,40mm Nominal bore 4.05mm thick @ 4.43 Kg/m,50mmNominal bore 4.47mm thick @ 6.17 Kg/m, 65mm Nominal bore 4.47mmthick @ 7.90 Kg/m, 80mm Nominal bore 4.85mm thick @ 10.10 Kg/m,100mm Nominal bore5.40mm thick @ 14.40 Kg/m,150mm Nominal bore5.40mm thick @ 21.20 Kg/m, Such as Tees elbows check nuts unions,Flanger, Nipples etc. including cutting welding, Trending fixing on walls,ceiling (Using 41-Tech pipe/M.S.angle supports work includes two coatsof metal primer and two coats of Red enamel paint etc.including cost ofmaterials, labour, HOM complete as per specifications. | | | | | | | |
| | | Rmtr | | | | | | |
| | Pre measurement Quantity vide page no (7) | | | | | | 1041.00 | |
| | Quantity To be Paid | | | | | | 1041.00 | |
| | | | | | | | | |

Contractor

Assistant Engineer 30/8/19

Asst. Executive Engineer
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Yelahanka Zone
Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 18 | Meter and Panel Board: Supply and delivery of meter and panel board unit one number of MS box of size 300 x 120mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for mounting the CTS(if any) cutouts 3 phase dia 4 wire energy meter and cable box complete. A transparent glass piece should be provided where the energy meter reading could be read. b. Panel Board (15HP) One number of cubicle type of control panel board to operate on 50c/400/400v | | | | | | | |
| | | Each | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | Total | | 5.00 | |
| 19 | Commissioning of work of pumpset including aligning and balancing with all necessary erection of material and labour including supply and erection of two pair of supporting clamps. One borewell cap, cable clips and water tight gland cable protectors, bolts nuts, valves and gauges etc., all job including fixing sluice valve, non return valve etc., and connecting deliver side of pumpset to rising main etc., complete | | | | | | | |
| | | Each | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | Total | | 5.00 | |

Contractor

Assistant Engineer 30/8/19

30/8/19

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Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 20 | Supplying & Fixing 50mm G.I. Union | | | | | | | |
| | | No | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | Total | | 5.00 | |
| 21 | Supplying & Fixing 50mm Elbow | | | | | | | |
| | | No | | | | | | |
| | Gangammagudi-Kalattur layout | | 3 | | | | 3.00 | |
| | Gudde vinayaka Temple | | 3 | | | | 3.00 | |
| | Near Aveksha Hospital | | 3 | | | | 3.00 | |
| | Vinayaka Nagar | | 3 | | | | 3.00 | |
| | Singapura -Balaji Layout | | 3 | | | | 3.00 | |
| | | | | | Total | | 15.00 | |
| 22 | Supplying & Fixing 50mm G I Nipple | | | | | | | |
| | | No | | | | | | |
| | Gangammagudi-Kalattur layout | | 3 | | | | 3.00 | |
| | Gudde vinayaka Temple | | 3 | | | | 3.00 | |
| | Near Aveksha Hospital | | 3 | | | | 3.00 | |
| | Vinayaka Nagar | | 3 | | | | 3.00 | |
| | Singapura -Balaji Layout | | 3 | | | | 3.00 | |
| | | | | | Total | | 15.00 | |

Contractor

Assistant Engineer 30/8/19

30/8/19

Asst. Executive Engineer
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Bangalore

| BRUHATH BANGALORE MAHANAGARA PALIKE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara. | | | | | | | | |
| MEASUREMENT | | | | | | | | |
| | RA BILL NO FIRST AND FINAL | | | | | | | |
| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 23 | Supplying & Fixing 50mm Collar | | | | | | | |
| | | No | | | | | | |
| | Gangammagudi-Kalattur layout | | 3 | | | | 3.00 | |
| | Gudde vinayaka Temple | | 3 | | | | 3.00 | |
| | Near Aveksha Hospital | | 3 | | | | 3.00 | |
| | Vinayaka Nagar | | 3 | | | | 3.00 | |
| | Singapura -Balaji Layout | | 3 | | | | 3.00 | |
| | | | | | Total | | 15.00 | |
| 24 | Fabricating supplying and mounting MS box made out... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete | | | | | | | |
| | 14 SWG | Sq.cms | | | | | | |
| | Gangammagudi-Kalattur layout | | 2 | 100.00 | 100.00 | | 20000.00 | |
| | Gudde vinayaka Temple | | 2 | 100.00 | 100.00 | | 20000.00 | |
| | Near Aveksha Hospital | | 2 | 100.00 | 100.00 | | 20000.00 | |
| | Vinayaka Nagar | | 2 | 100.00 | 100.00 | | 20000.00 | |
| | Singapura -Balaji Layout | | 2 | 100.00 | 100.00 | | 20000.00 | |
| | | | | | Total | | 100000.00 | |

Contractor

Assistant Engineer 30/8/19

30/8/19

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**BRUHATH BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.**

**MEASUREMENT**

**RA BILL NO FIRST AND FINAL**

| Item no | From | Unit | nos | L (m) | B (m) | D (m) | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 25 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint | | | | | | | |
| | **50x50x6mm** | **Rmtr** | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | 6.00 | | | 6.00 | |
| | Gudde vinayaka Temple | | 1 | 6.00 | | | 6.00 | |
| | Near Aveksha Hospital | | 1 | 6.00 | | | 6.00 | |
| | Vinayaka Nagar | | 1 | 6.00 | | | 6.00 | |
| | Singapura -Balaji Layout | | 1 | 6.00 | | | 6.00 | |
| | | | | | **Total** | | **30.00** | |
| 26 | Supplying of TPST with rewirableporcelain channels in SM enclosure | | | | | | | |
| | **32 AMPS** | **Each** | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | **Total** | | **5.00** | |
| 27 | Supply and fixing polished wood board made of not less than 15mmthick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc | | | | | | | |
| | **20"x20"x2.5"** | **Each** | | | | | | |
| | Gangammagudi-Kalattur layout | | 1 | | | | 1.00 | |
| | Gudde vinayaka Temple | | 1 | | | | 1.00 | |
| | Near Aveksha Hospital | | 1 | | | | 1.00 | |
| | Vinayaka Nagar | | 1 | | | | 1.00 | |
| | Singapura -Balaji Layout | | 1 | | | | 1.00 | |
| | | | | | **Total** | | **5.00** | |

Contractor

Assistant Engineer 30/08/19

30/8/19

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore